

**AMENDMENT AND PRESENTATION OF CLAIMS**

Please add new claims 19-23 as follows.

1. (Original) A method of compressing video, comprising:  
grouping video frames that are between consecutive I-frames into a video data set;  
splitting the video data set into a plurality of homogeneous files; and  
individually compressing each of the homogeneous files.
2. (Original) A method according to claim 1, wherein the video frames include P-frames and B-frames.
3. (Original) A method according to claim 1, wherein said splitting includes storing mode information of the video data set and motion components in separate files.
4. (Original) A method according to claim 1, wherein said splitting includes storing horizontal components of the video data set and vertical components of the video data set in separate files.
5. (Original) A method according to claim 1, wherein said splitting includes storing B-frame components of the video data set and P-frame components of the video data set in separate files.
6. (Original) A method according to claim 1, wherein said splitting includes storing mode 3 B-frame components of the video data set and mode 0, 1, and 2 B-frame components of the video data set in separate files.
7. (Original) A method according to claim 1, wherein said splitting includes storing different color components of the video data set in different files.

8. (Original) A method according to claim 1, further comprising mapping negative values in one of the homogeneous files into positive values.
9. (Original) A method according to claim 1, wherein said compressing includes applying a grammar-based code.
10. (Original) A method according to claim 9, wherein said applying includes employing a YK algorithm.
11. (Original) A method according to claim 1, wherein said compressing includes bit plane encoding quantized transform coefficients obtained from the video data set.
12. (Original) A method according to claim 11, wherein said compressing includes performing a run-length encoding of bit planed encoded coefficients.
13. (Original) A method according to claim 1, wherein said homogeneous files have similar statistical properties.
14. (Original) A method according to claim 1, further comprising multiplexing the separate files into a bit stream.
15. (Original) A method according to claim 14, further comprising prefixing a corresponding header to each of the separate files, said header indicating a size of a corresponding separate file.
16. (Original) A computer-readable medium bearing instructions for compressing video, said instructions being arranged, upon execution by one or more processors, to perform the steps of the methods as in any of claims 1-15.

17. (Original) A video compression system, comprising:

means for grouping video frames that are between consecutive I-frames into a video data set;

means for splitting the video data set into a plurality of homogeneous files; and

means for individually compressing each of the homogeneous files.

18. (Original) A video compression system according to claim 17, further comprising:

means for multiplexing the individually compressed files into a bit stream.

19. (New) A method of compressing video, comprising:

grouping video frames that are only between two consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.

20. (New) A method according to claim 19, wherein at least one of the individual data sequences contains information from each of the video frames that are only between the two consecutive I-frames.

21. (New) A method of compressing video, comprising:

splitting the video data set consisting of non-intra video frames into a plurality of data sequences; and

individually compressing each of the files, wherein at least one of the data sequences contains information from each of the non-intra video frames.

22. (New) A method of compressing a video signal, comprising:

grouping video frames of the video signal that are between consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.

23. (New) A method according to claim 22, further comprising multiplexing the individual data sequences into a bit stream.